

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/633,653	08/05/2003	Jan Carlsson	1614-0261P	5460
7590 06/20/2006		EXAMINER		
Holly D. Kozlowski			NGUYEN, BAO THUY L	
Dinsmore & Shohl LLP 255 E. 5th Street			ART UNIT	PAPER NUMBER
1900 Chemed Center			1641	
Cincinnati, OH	45202		DATE MAILED: 06/20/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		10/633,653	CARLSSON ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Bao-Thuy L. Nguyen	1641	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with th	e correspondence address	
	IORTENED STATUTORY PERIOD FOR REPLY	/ IS SET TO EXPIRE 3 MONT	H(S) OR THIRTY (30) DAYS	
WHIC - Exte after - If NC - Fails Any	CHEVER IS LONGER, FROM THE MAILING DA ensions of time may be available under the provisions of 37 CFR 1.13 of SIX (6) MONTHS from the mailing date of this communication. Of period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing	ATE OF THIS COMMUNICATI 36(a). In no event, however, may a reply be vill apply and will expire SIX (6) MONTHS fr cause the application to become ABANDO	ON. In timely filed The mailing date of this communication. The mailing date of this communication. The mailing date of this communication.	
	ed patent term adjustment. See 37 CFR 1.704(b).			
Status				
1)⊠	Responsive to communication(s) filed on 05 A			
2a)□	This action is FINAL . 2b)⊠ This	action is non-final.		
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the mer			
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11,	453 O.G. 213.	
Dienosit	ion of Claims			
· _				
4)⊠	Claim(s) <u>1</u> is/are pending in the application.			
5.□	4a) Of the above claim(s) is/are withdrawn from consideration.			
	Claim(s) is/are allowed.			
6)⊠	Claim(s) 1 is/are rejected.			
7)□	Claim(s) is/are objected to.	r alaction requirement		
8)	Claim(s) are subject to restriction and/or	r election requirement.		
Applicat	ion Papers			
9)[The specification is objected to by the Examine	г.		
·	The drawing(s) filed on is/are: a) acce		e Examiner.	
	Applicant may not request that any objection to the	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).	
	Replacement drawing sheet(s) including the correcti	ion is required if the drawing(s) is	objected to. See 37 CFR 1.121(d).	
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Offi	ce Action or form PTO-152.	
Priority (under 35 U.S.C. § 119			
	Acknowledgment is made of a claim for foreign			
	(a)-(d) or (f).			
a)		have been received		
	1. ☐ Certified copies of the priority documents2. ☒ Certified copies of the priority documents		ation No. 00/672 992	
	2. Certified copies of the priority documents3. Copies of the certified copies of the priority	* *		
	application from the International Bureau		ived in this National Stage	
* (ivod			
•	See the attached detailed Office action for a list	or the certified copies flot fece	iveu.	
Attachmen	t(s)			
1) 🔯 Notic	te of References Cited (PTO-892)	4) Interview Summa		
	te of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail	Date al Patent Application (PTO-152)	
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date	6) Other:	ar atent Application (r. 10-152)	
•		· —-		

Art Unit: 1641

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is indefinite with respect to the use of unconventional claim language; "characterized in" should be replaced with -comprising-- or -consisting of-- for clarity.

Claim 1 is also confusing with respect to the use of parenthetical subject matter. The use of parentheses to describe claim limitations is indefinite because it is unclear if the parenthetical materials are part of the claimed invention.

Claim 1 is vague and indefinite with respect to the recitation of, for example "...which zone exhibits a structure" because it is unclear if this "structure" is an inherent part of the zone and is exhibited by the zone as a matter of course. It is recommended that "exhibits" be replaced with more convention claim terminology such as --containing--. As stated above, the parenthetical material is confusing, thus, a "structure" is vague because it is unclear if this "structure" is a biological material or a mechanical material. Furthermore, it is unclear if how the "structure" and the capturer in the detection are related to each other because it appears as though they both bind to the analyte.

Art Unit: 1641

Claim 1 is further unclear with respect to part (A) where a flow matrix is recited as having "one and the same transport flow". It is unclear what this means.

The "optional" material has not been given patentable weight.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors

Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology

Technical Amendments Act of 2002 do not apply when the reference is a U.S.

patent resulting directly or indirectly from an international application filed

before November 29, 2000. Therefore, the prior art date of the reference is

determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre
AIPA 35 U.S.C. 102(e)).

3. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Doshi et al (US Patent No. 5,766,552).

Art Unit: 1641

Doshi et al disclose a method and device for analyzing a blood sample comprising an application zone, an enzyme pad (labeled zone) and through the remainder zones of the test device and finally contacts the measurement zone. The measurement zone is coated or impregnated with an indicator material that reacts with the enzyme-reacted sample to give an indication of the presence or amount of analyte in the sample (column 16, lines 8-27 and figure 3). It can clearly be seen in figure 3 that the measurement (detection) zone is located downstream of the absorbent and enzyme pad and the flow into and out the detection zone is a lateral flow.

Doshi discloses a device incorporating the blood separation means in which whole blood is introduced to the device through an absorbent pad (i.e. SZ) which is impregnated with a mixture of a lectin and beads of acrolein coated with lectins. RBC in the sample agglutinates upon contact with the agglutinin in the absorbent pad and is retained. Blood that is substantially free of RBC flows into a secondary separation pad and is further filtered. The sample then flows to the enzyme pad and through the remainder zones of the test device and finally contacts the measurement zone (i.e. DZ). The measurement zone is coated or impregnated with an indicator material that reacts with the enzyme-reacted sample to give an indication of the presence or amount of analyte in the sample (column 16, lines 8-27; and figure 3). It can clearly be seen in figure 3 that the measurement zone (i.e. DZ) is located downstream of the absorbent and enzyme

Art Unit: 1641

pad and the flow into and out the detection zone is a lateral flow. Doshi is seen to anticipate the claimed test kit because the test kit has nothing more than a device which is taught by Doshi.

4. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Lonnberg et al (WO 96/22532).

Lonnberg discloses a device comprising an application zone (Z3), a detection zone (Z1), and a transport zone (Z2) therebetween. See figure 1. Lonnberg does not specifically teach that transport zone exhibits a structure to the analyte; hover, Lonnberg anticipates that instant claims because it is unclear if this "structure" is a biological material or a mechanical material as explained above.

5. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Fitzpatrick et al (US 5,451,504).

Fitzpatrick discloses a device comprising an application zone, a mobilization zone, a trap zone, a detection zone and an absorbent zone. See figure 1. The mobilization zone comprises labeled receptor for the analyte; the trap zone comprising immobilized ligand that will bind either free receptor or excess analyte. The detection zone comprises immobilized capture reagent for the analyte-labeled receptor complex. See column 4, lines 50-58; column 6, lines

Art Unit: 1641

38-44; column 7, lines 15-24, and column 8, lines 13-41. Fitzpatrick is seen to anticipate the claimed test kit because the test kit has nothing more than a device which is taught by Fitzpatrick.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bao-Thuy L. Nguyen whose telephone number is (571) 272-0824. The examiner can normally be reached on Tuesday and Thursday from 9:00 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long V. Le can be reached on (571) 272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1641

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Bao-Thuy L. Nguyen Primary Examiner Art Unit 1641